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AND 34. PINHOLES IN THE EMULSION CAN BE DETECTED IN FRAMES 351 THROUGH 353. SMALL PARTICLES OF FOREIGN MATTER WERE EITHER ON THE EMULSION OR IN THE CAMERA HOUSING WHEN FRAMES 544 THROUGH 546 WERE EXPOSED. HEAT SPLICES ARE LOCATED BETWEEN THE FOLLOWING FRAMES: 002/003, 592/593, 600/601 AND 602/603. CAMERA OFF/ONS WITH ASSOCIATED FOGGED AREAS, INDUCED BY MINOR LIGHT LEAKS, OCCUR BETWEEN FRAMES 203/204, 234/235, 716/717, 842/843, 1090/1091, AND 1114/1115. FRAME TITLING WAS IN ERROR AS INDICATED BY MESSAGE O 232345Z APR 68 [REDACTED]

[REDACTED] THE LAST TITLED FRAME OF THE LEFT TECHNICAL OBJECTIVE CAMERA MATERIAL IS FRAME 1292.

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(2) RIGHT TECHNICAL OBJECTIVE CAMERA (AR), S/N 64-06: THERE ARE RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS OF THE FILM THROUGHOUT THE ENTIRE MISSION. EMULSION LIFTS ARE PRESENT IN FRAMES 4, 5, 6, 25, 39, 471 AND 472. SMALL PARTICLES OF FOREIGN MATTER WERE EITHER ON THE EMULSION OR IN THE CAMERA HOUSING WHEN FRAMES 44 THROUGH 55 WERE EXPOSED. AN ULTRASONIC SPlice IS LOCATED IN FRAME 69 AND HEAT SPLICES ARE LOCATED BETWEEN FRAMES 600/601 AND 1200/1201. FRAME 601 CONTAINS A MYLAR REPAIR SPlice. CAMERA OFF/ONS OCCUR BETWEEN THE FOLLOWING FRAMES: 277/278, 857/858, AND 1106/1107. THE LAST TITLED FRAME OF THE RIGHT TECHNICAL OBJECTIVE CAMERA MATERIAL IS FRAME 1256.

B. OPERATIONAL OBJECTIVE CAMERA MATERIAL: THIS MATERIAL PROVIDES GROUND RESOLUTIONS OF [REDACTED] AT NADIR. THE LEFT CAMERA PROVIDES THE BETTER RESOLUTIONS. THE RIGHT CAMERA MATERIAL IS SLIGHTLY DEGRADED AT NADIR AS EXPLAINED IN SUBSEQUENT PARAGRAPHS. THE DENSITY AND CONTRAST OF THE NEGATIVES APPEAR ADEQUATE. THE TIMING DOTS ON THE FILM FROM BOTH CAMERAS BEGIN 0.75 INCH AFTER THE START OF SCAN AND EXTEND THE SAME DISTANCE BEYOND THE END OF SCAN. FOGGING, ASSOCIATED WITH THE ILLUMINATION OF THE DATA CHAMBER, ENCROACHES APPROXIMATELY 0.25 INCH INTO THE IMAGERY OF ALL FRAMES.

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(1) LEFT OPERATIONAL OBJECTIVE CAMERA (CL), S/N 4005: THIS CAMERA IS THE SAME CAMERA USED ON MISSION 5004. THE EVENTS COUNTER HAS A BIAS OF MINUS SIX WITH THE TITLED FRAME NUMBER. CAMERA OFF/ONS, WITH ASSOCIATED FRAME OVERLAP, OCCUR BETWEEN FRAMES 831/832 AND 1881/1882. A FINE MINUS DENSITY STREAK, PARALLEL TO THE MAJOR AXIS OF THE FILM, IS PRESENT BUT CAUSES ONLY MINOR DEGRADATION. THERE IS A SPlice BETWEEN FRAMES 1050/1051. BANDING, PARALLEL TO THE MINOR AXIS, IS PRESENT IN FRAMES 1576 THROUGH 1593. THE BANDING STARTS AT THE BEGINNING OF SCAN AND EXTENDS HALFWAY THROUGH THE FRAME; IT IS READILY DETECTABLE IN NEUTRAL AREAS AND CAUSES NO DETECTABLE DEGRADATIONS TO THE GROUND IMAGERY. THE LAST TITLED FRAME OF THE LEFT OPERATIONAL OBJECTIVE CAMERA MATERIAL IS FRAME 2163.

(2) RIGHT OPERATION OBJECTIVE CAMERA (CR), S/N 4016: THE EVENTS COUNTER HAS A BIAS OF MINUS FIVE WITH THE TITLED FRAME NUMBER. THE FIRST FIVE TITLED FRAMES ARE BLANK AND APPEAR TO BE PART OF THE PREFLIGHT MATERIAL. CAMERA OFF/ONS, WITH ASSOCIATED FRAME OVERLAP, OCCUR BETWEEN FRAMES 842/843 AND 1910/1911. NUMEROUS FINE MINUS DENSITY LINES ARE PRESENT PARALLEL TO THE MAJOR AXIS OF THE FILM BUT CAUSE NO APPARENT IMAGE DEGRADATION. A SPlice IS PRESENT BETWEEN FRAMES 2039/2090. THE FIRST 0.25 INCH OF SCAN (NEAREST NADIR) IS SEVERELY DEGRADED AND APPEARS OUT OF FOCUS. THE NEXT 0.75 INCH ALSO APPEARS OUT OF FOCUS BUT TO A LESSER DEGREE. THE REMAINDER OF THE FRAME IS TYPICAL FOR IMAGERY ACQUIRED AT THOSE SCAN ANGLES. THE LAST

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TITLED FRAME OF THE RIGHT OPERATIONAL OBJECTIVE CAMERA MATERIAL IS FRAME 2197.

5. MISSION RECORDER SYSTEM (MRS) CORRELATION: THE GREENWICH MEAN TIME IN THE MRS HAS A PLUS 24 HOUR BIAS FOR ALL CAMERAS (EXAMPLE: 032155 READS 272155). MRS DATA WAS NOT RECEIVED FOR THE FIRST SEVEN RIGHT TECHNICAL OBJECTIVE FRAMES NOR FOR EIGHT TECHNICAL OBJECTIVE CAMERA FRAMES FROM GMT 045237 TO GMT 052519. THESE TIMES CORRESPOND TO THE LEFT TECHNICAL OBJECTIVE FRAMES 297 TO 1116 AND RIGHT TECHNICAL OBJECTIVE FRAMES 322 TO 1106.

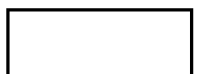
A. TECHNICAL OBJECTIVE CAMERA: A GOOD CORRELATION WAS ACHIEVED FOR THE MRS DATA RECEIVED. THE RIGHT TECHNICAL OBJECTIVE CAMERA NEGATIVES CORRELATE WITH THE MRS IN BOTH FRAME NUMBERS AND GMT. THE CLOCK ON THE LEFT TECHNICAL OBJECTIVE CAMERA NEGATIVES SHOWS A MINUS FOUR SECOND BIAS (IN ADDITION TO THE 24 HOUR BIAS). THE FIRST 234 FRAMES OF THE LEFT TECHNICAL OBJECTIVE CAMERA CORRELATES WITH THE MRS; HOWEVER, THERE ARE THREE ERRONEOUS LINES OF DATA AFTER FRAME 234. THE MRS SHOWS A PLUS THREE LINE BIAS FROM FRAME 235 TO THE END OF THE MISSION MATERIAL.

3. OPERATIONAL OBJECTIVE CAMERAS: A FAIR CORRELATION WAS ACHIEVED. THE CLOCK RECORDED BY THE LEFT OPERATIONAL OBJECTIVE CAMERA SHOWS A MINUS THREE SECOND BIAS THROUGHOUT THE MISSION. THE CLOCK RECORDED BY THE RIGHT OPERATIONAL OBJECTIVE CAMERA DOES NOT SHOW A CONSTANT BIAS. IT APPEARS TO HAVE A PLUS SEVEN BIAS AT THE BEGINNING OF THE MISSION WHICH GRADUALLY INCREASES TO A PLUS 11 SECOND BIAS AT THE END OF THE MISSION.

6. TIME DID NOT PERMIT THE USUAL THOROUGH EVALUATION OF THE MATERIAL. ALL 6907 FRAMES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS WERE VIEWED AND A PERFUNCTORY PHOTO/MRS/PLOT CORRELATION WAS PERFORMED. A MORE THOROUGH EVALUATION WOULD NOT SUBSTANTIALLY CHANGE THE CONCLUSIONS BUT WOULD PROVIDE GREATER DEPTH AND A BETTER COMPARISON WITH THE MATERIALS FROM PREVIOUS MISSIONS.

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END OF MESSAGE